



FACULTY FULL NAME:

Walaa Abdelmohsen AbdelSalam Hassan

Assistant professor

Personal Data

Nationality | Egyptian

Gender | Female

Date of Birth | 17 July 1978

Current Position: Assistant professor at Imam Abdulrahman bin Faisal University

Faculty of applied studies and community service

Department | MIS

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[|walaam99@yahoo.com](mailto:walaam99@yahoo.com)

Office Phone No. | +966540371866

Marital status: Married

Children: 2 children (Girl: 9years, boy: 5 years)

URL: <https://www.iau.edu.sa/en/colleges/college-of-applied-studies-and-community-service/faculty/dr-walaa-abdelmohsen-abdelsalam-hassan>

Language Proficiency

| Language | Read | Write | Speak |
|------------------------|---------|---------|---------|
| Arabic (mother tongue) | | | |
| English | v. good | v. good | v. good |



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|--------------------------|-------|-------|-------|
| Others (Japanese-French) | basic | basic | basic |
|--------------------------|-------|-------|-------|

Academic Qualifications (Beginning with the most recent)

| Date | Academic Degree | Place of Issue | Address |
|------|-----------------|----------------|---|
| 1999 | BSc | Cairo | Cairo university, Faculty of Science, Egypt |
| 2005 | MSc | Cairo | Cairo university, Faculty of Science, Egypt |
| 2010 | PhD | Okayama | Okayama Univ. Graduate sch. Of Net. Sci. & Tech., Japan |

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

| | |
|------------|--|
| PhD | A Study of Access Point Allocation And Channel Assignment For Dependable Wireless Mesh Network |
| Master | A Protocol for Handling Distributed Shared Memory Based Systems |
| Fellowship | |

Professional Record: (Beginning with the most recent)

| Job Rank | Place and Address of Work | | | Date |
|--------------|---------------------------|-----------------------------------|--|---------------------------|
| Assist Prof | Dammam-Saudi Arabia | Imam Abdulrahman Bin Faisal Univ. | Faculty of Applied studies and community service | Since 11/2014 Till now |
| Assist Prof | Cairo-Egypt | Cairo Univ. | Faculty of Science | 12/2010- 10/2014 |
| Assist Lect. | Cairo-Egypt | Cairo Univ. | Faculty of Science | 2/2005- 11/2010 |
| Demonstrator | Cairo-Egypt | Cairo Univ. | Faculty of Science | 2/2000- 1/2005 |

Scientific Achievements

Published Refereed Scientific Researches



(In Chronological Order Beginning with the Most Recent)

| # | Name of Investigator(s) | Research Title | Publisher and Date of Publication |
|---|---|--|---|
| 1 | Walaa Hassan, Tamer Farag | Adaptive Allocation Algorithm for Multi-Radio Multi-Channel Wireless Mesh Networks | Future Internet 2020, 12(8), 127; https://doi.org/10.3390/fi12080127 MDPI |
| 2 | Firas Haddad, Mutasem K. Alsmadi, Usama Badawi, Tamer Farag, Raed Alkhasawneh, Ibrahim Almarashdeh, Walaa Hassan | Bivariate modified hotelling's T^2 charts using bootstrap dat | International Journal of Electrical and Computer Engineering 2019 |
| 3 | TH Farag, WA Hassan, HA Ayad, AS AlBahussain, UA Badawi, MK Alsmadi | Extended Absolute Fuzzy Connectedness Segmentation Algorithm Utilizing Region and Boundary-Based Information | Arabian Journal for Science and Engineering 2017 |
| 4 | GhaithJaradat Yazan M. Alomari and Hamzeh M. Alsmadi Mutasem K. Alsmadi, Ahmed Younes.Hamed, Usama A. Badawi, Ibrahim Almarashdeh, Abderrazak Salah, Tamer H. Farag, Walaa Hassan | Face Image Recognition Based On Partial Face Matching Using Genetic Algorithm | SUST Journal of Engineering and Computer Sciences (JECS) Volume 18 Issue 1 Pages 51-61 2017 |
| 5 | Tamer Farag, Nobuo Funabiki, Walaa Hassan | An extension of access point allocation algorithm for wireless mesh networks with multiple gateways and | IEICE Technical Report, IN2014-20, pp.31-60, June 2014 |



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|----|---|---|---|
| | | maximum hop limitation | |
| 6 | Walaa Hassan, Nobuo Funabiki, Md. Ezharul Islam, Tamer Farag | Throughput evaluations using NS-2 for access-point aggregation algorithm in IEEE802.11n wireless LANs | IEICE Technical Report, IN2014-20, pp.25-30, June 2014. |
| 7 | Tamer Farag, Nobuo Funabiki, Walaa Hassan | An Extension of Access-Point Allocation Algorithm for Adapting Link Speed Change in Wireless Mesh Network | IEICE Technical Report, NS2013-158, RCS2013-250, pp.137-142(NS), pp.255-260(RCS), December 2013 |
| 8 | W. Hassan, N. Funabiki, and T. Nakanishi | Extensions of the access point allocation algorithm for wireless mesh networks | IEICE Transactions on Communications, vol. E93-B, no. 6, pp. 1555-1565, June 2010. |
| 9 | W. Hassan, T. Farag, N. Funabiki, and T. Nakanishi | Improvement of dependable access point allocation algorithm and introduction of route availability for wireless mesh networks | IEICE Technical Report, NS2009-122, pp. 11-16, December 2009 |
| 10 | Walaa Hassan, Tamer Farag, Nobuo Funabiki, and Toru Nakanishi | Dependability Extensions of the Access Point Allocation Algorithm for Wireless Mesh Networks | IEICE Technical Report ,NS2009-23, pp.37-42. |
| 11 | W. Hassan, N. Funabiki, and T. Nakanishi | A dynamic channel assignment technique for wireless Internet-access mesh networks | Proceedings of The 14th Asia-Pacific Conference on Communications |



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|----|---|--|--|
| | | | (APCC2008), Oct. 14-16, 2008. |
| 12 | N. Funabiki, K. Uemura, T. Nakanishi, and W. Hassan | A minimum-delay routing tree algorithm for access-point communications in wireless mesh networks | Proceedings of International Conference on Research Innovation Vision for the Future (RIVF-2008), pp. 161-166, Jul. 2008. |
| 13 | Nobuo Funabiki, Aki Mouri, Walaa Hassan, and Toru Nakanishi | A lecture scene playback system using digital picture-card show for distance learning | International Workshop on Network-based Virtual Reality and Tele-existence (INVITE'2008), pp. 1071-1076, March 25-28, 2008 |
| 14 | N. Funabiki, T. Nakanishi, W. Hassan, and K. Uemura | A channel configuration problem for access-point communications in wireless mesh networks | Proceedings of IEEE International Conference on Networks (ICON), Nov. 2007. |

Current Researches

| # | Research Title |
|---|----------------------------|
| 1 | Efficiency of supply chain |

Membership of Scientific and Professional Societies and Organizations

- IEEE

Teaching Activities



Undergraduate

| # | Course/Rotation Title | Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics) |
|---|------------------------|--|
| 1 | Database systems | Lecturer |
| 2 | Programming language 2 | Lecturer |
| 3 | Practical training | Lecturer |
| 4 | Graduation project | supervisor |

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

| | |
|----|--|
| 1 | System analysis and design |
| 2 | Computer skills |
| 3 | Management Information systems |
| 4 | Web design |
| 5 | Computer Network |
| 6 | Algorithms |
| 7 | ASP.net |
| 8 | Programming language(V.basic.NET-Java-C++) |
| 10 | Image processing |
| 11 | Information Security |

Postgraduate

| # | Course/Rotation Title | Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics) |
|---|---------------------------|--|
| 1 | Advanced Computer Network | Lecturer |
| 2 | Advanced Image processing | Lecturer |

Last Update

...15./12/2020